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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/470,155	12/22/1999	Naiyong Jing	55235USA2A	5837
32692 7.	590 12/16/2002			
3M INNOVA	TIVE PROPERTIES	EXAMINER		
PO BOX 33427 ST. PAUL, MN 55133-3427			CHEN, VIVIAN	
			ART UNIT	PAPER NUMBER
			1773	/1
			DATE MAILED: 12/16/2002	1:1

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/470,155	JING, NAIYO	NG			
		Examiner	Art Unit				
		Vivian Chen	1773				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sh	eet with the correspondence	e address			
A SHI THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute epty received by the Office later than three months after the mailing department adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ly within the statutory minimu will apply and will expire SIX e, cause the application to be	may a reply be timely filed  n of thirty (30) days will be considered (6) MONTHS from the mailing date of come ABANDONED (35 U.S.C. § 133	this communication.			
1)⊠	Responsive to communication(s) filed on <u>07</u>	February 2002 .					
2a)⊠	This action is FINAL. 2b) Ti	his action is non-final					
3) 🗌	Since this application is in condition for allow closed in accordance with the practice under						
·	on of Claims	.1:4:					
•	Claim(s) 1 and 3-11 is/are pending in the app		untin n				
	4a) Of the above claim(s) 8,9 and 11 is/are wit	narawn from conside	eration.				
·	Claim(s) is/are allowed.						
·	Claim(s) <u>1,3-7 and 10</u> is/are rejected.						
·	Claim(s) is/are objected to.		4				
	Claim(s) are subject to restriction and/of on Papers	or election requireme	nt.				
	The specification is objected to by the Examine	er					
′_	The drawing(s) filed on is/are: a)□ acce	<u></u>	o by the Examiner.				
, 🗀	Applicant may not request that any objection to the	•	•	ō(a).			
11) 🔲 -	The proposed drawing correction filed on	= : :		• •			
	If approved, corrected drawings are required in re						
12) 🔲 -	The oath or declaration is objected to by the Ex	kaminer.					
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U	S.C. § 119(a)-(d) or (f).				
a)[	☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* S	3. Copies of the certified copies of the price application from the International Business the attached detailed Office action for a list	reau (PCT Rule 17.2	?(a)).	onal Stage			
14) 🗌 A	cknowledgment is made of a claim for domest	ic priority under 35 U	.S.C. § 119(e) (to a provisi	ional application).			
	)  The translation of the foreign language process  Acknowledgment is made of a claim for domes	• •					
Attachment	_	•					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 No	erview Summary (PTO-413) Pape tice of Informal Patent Application er:				
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Art Unit: 1773

#### **DETAILED ACTION**

1. Claims 2, 12-28 have been cancelled.

### Claim Rejections - 35 USC § 103

5. Claims 1, 3-6, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over TSE ET AL (US 5,227,426) for the reasons stated in paragraph 5 of the previous Office Action.

TSE ET AL disclose a curable adhesive composition comprising an olefin polymer with pendent functional groups such as carboxyl or amide, and catalysts such as tetrabutyl phosphonium bromide, crown ethers, and/or tetrabutyl ammonium hydroxide (columns 12-16, 23-24; lines 5-16, col. 30) as recited in claims 1, 3, 5-6, 10. However, the reference does not explicitly disclose the recited combination of a base and crown ether.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an effective combination of known catalysts as curing agents and use a commercially available crown ether such as 18-crown-6 ether in the adhesive composition of TSE ET AL depending on the particular functional groups and base polymer used, and the curing properties, adhesive and processing characteristics required by a given application.

6. Claims 1, 3-4, 7, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over KUBILLUS ET AL (US 5,169,979).

Art Unit: 1773

KUBILLUS ET AL discloses a curable polyester composition suitable for adhesives comprising a polyurethane-based or a polyamide-based resin in combination with catalysts such as sodium or potassium hydroxide, crown ethers, and/or tetrabutylammonium fluoride (lines 43-55, 61-64, col. 4; lines 21-53, col. 9) as recited in claims 1, 3, 7, 10. However, the reference does not explicitly disclose the recited combination of a base and crown ether.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to select an effective combination of known catalysts as curing agents and use a commercially available crown ether such as 18-crown-6 ether in the adhesive composition of KUBILLUS ET AL depending on the particular functional groups and base polymer used, and the curing properties, adhesive and processing characteristics required by a given application.

#### Response to Amendment

2. The rejection under 35 USC 103(a) based on KRAFT ET AL '192 has been withdrawn in view of Applicant's Amendment filed 2/7/2002

#### Response to Arguments

- 3. Applicant's arguments filed 2/7/2002 have been fully considered but they are not persuasive.
- (A) Applicant argues that TSE ET AL fails to disclose the claimed invention because in the claimed composition, the base and crown ether are incorporated into the polymer. In response to applicant's argument that the reference fails to show certain

Art Unit: 1773

features of applicant's invention, it is noted that the features upon which applicant relies (i.e., base and crown ether being incorporated into the polymer; compositions produced by bulk reaction; etc.) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). TSE ET AL discloses the invention as presently claimed -- namely, a melt-processable, non-fluorinated polymer such as a functionalized polyolefin and a catalyst system containing a base and a crown ether. Applicant has not provided any probative evidence of criticality or unexpected results from the claimed composition or catalyst system which is commensurate in scope with the present claims.

(B) Applicant argues that KUBILLUS ET AL fails to teach the claimed invention because polyester resins have been excluded from the present claims. However, KUBILLUS ET AL clearly discloses the use of other resins such as polyurethane- or polyamide-based compounds (lines 43-55, 61-64, col. 4).

## Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Art Unit: 1773

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivian Chen whose telephone number is (703) 305-3551. The examiner can normally be reached on Monday through Thursday from 8:30 AM to 6 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310 (for non-after finals) and (703) 872-9311 (for after-finals).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

December 12, 2002

Vivian Chen Primary Examiner Art Unit 1773

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